

Halls' Plantae Oregonensis.

Panicum dichotomum, L.

Panicum scoparium Lam.

P. paniciflorum Gray & Kun (Ell?)

P. macrocarpon, Torr. Fl.

I have gone ~~off~~ on this plant at intervals of several years & can't help thinking the synonymy is correct. It like P. dichotomum has a different aspect when its branches & produces a new crop. The plant of your manual; at any rate the specimen contributed by you to my herb. is a weak form. The typical scoparium, grows in Conn. & is Torr's species designated. There is a very distinct character in the perfect flower which seems to have escaped notice. At the base of the lower palea is a distinct fold or rudiment; the palea is somewhat dull & when strongly magnified is punctulate (striate)

(i) Stipa occidentalis, Thurb. Watson Bot. 4th ed.
Parallel. p. 380

(a) Alopecurus pratensis L.

A slender form like that collected in California by Bolander.

(g) Vilfa depauperata, Torr.

This has the short blunt glumes of V. depauperata, but occasional florets have the long pointed points of V. cuspidata. It is possible

that these two species will have to be united. 2

(n) Sporobolus cryptandrus Gray.

(L) Agrostis Aequivalvis Trin
A. Hillebrandii Thurb. in Boland. bobs

A very attenuate form & pale green form of this I gave the provisional name of A. Hillebrandii - In going it over again for Brenner's Report I made it A. aequivalvis of Trin though the palelets are not quite equal. Now comes this which is more like Trin's description as to habit but is less "aequivalvous". Knowing how the upper palelets of Agrostis will cut up (& down) on the N.W. coast I don't attach much value to that. The very conspicuous rudiment is the same in both.

(x) Agrostis alba L.

(b & f) Agrostis Aparata Trin - of which there are as many forms as there are specimens.

(c) A. Aparata - long-armed

(f & d) A. canina L.

(j) Poa Stenantha Trin

P. leptocoma Trin & I think distincta Nervon Hook is your suggestion - I have never seen Hooker's plant. - Trin says of florets "basi subbacculatis". While Willdenow (Hort. Borneen) "variegata copiosa".

(L.) Melica paucoides Nutt.

A much reduced form. assuming
very puzzling shapes. I am not
sure but this & M. imperfecta Trin (M.
paucoides Nutt) will have to be united.
~~There is mixed with this a specimen with~~
glumes only.

(M) Lophoclaena refracta Rob-

- quite distinct -

I have none of Bolander's sold sets &
I do not recollect what I called Melica
aristata. - I have no such Melica in
my herb & no notes on it. - Some mistake
here.

Danthonia spicata

The common Californian form.

Danthonia Californica Bol.

Aira latifolia Hook

Aira elongata Hook

A. danthonioides Trin

of them two you say "quite the same are
they not"? I don't think I have seen
any specimens which make me doubt to
which one of them to refer them. The habit
is so different - Glumes in Danthonia so much
larger, the different shape & texture of the
glumes, the longer, stronger & geminate
are seen to me sufficient to separate

(t) Bromus racemosus L.

(s) Bromus subulatus Griseb.

Have not seen this before - I
take your two !! to mean that
you have compared it with the
original spec. twice?

(t (twice) + h) Both forms of
Bromus (Ceratocloa) cernuatus

Hook. I have only a specimen
of authentic spec. - which is a
very young one + less pulchre.

(v) "What is this?"

Some delapidated Bromus.

Probably B. brevicastratus Hook?

(L) Festuca ~~from~~ Myurus - var.
You marked this "bromoides" but
two species cannot be kept apart.

(O'). Festuca microstachys Nutt

(O) do do - var ciliata

(p) do do var clavigera Zm.

I think this is an European species
~~may be~~ delicatula Lag -

(v) F. ovina L.

(X) ~~Festuca rep~~
"Friticums repens, slender"

or I suppose, but how can one tell
some forms of F. repens & F. caninum
apart without the roots?

Elymus fibriscus L

2 forms.

(2) Hordeum jubatum (8) (note
under this is a stunted state
of this I don't know what
to call it.

(4) Elymus condensatus Pers
a narrow form of this most
variable grass.

Plant sent in letters
from. Tinson come again in
the shape of a very hairy Fr.
Microstachys very nearly the
same as Bolander No 37 - of his
old sets.

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1 Villa del Lago, Zerm. 11

2 *Helicoverpa* 3. n =

3. *Ammonia* *oxidans* *nitro*

4 *Myrica micrantha* ... *Androsace Trin.* ...

657 *Elymus* near *E. condensatus* Pers.

- 5- *Festuca repens* var -
- 6 *Festuca elyptoroides* Dur. var. *minor* with *L. repens*
- 7 *Festuca elyptoroides* Dur. *repens* var -
- 8 *Helictotrichon emarginatum*
- 9 *Stipa* *acutoides* -

660 *Vilfa* *diversifolia* Dur. var. *minor*

- 1 *Vilfa repens* Dur. var. *minor* - *repens* *repens* of *repens*
- 2 *Glyceria humilis* Pers.
- 3 *Citellus agrippa* Dur.
- 4 *Helictotrichon gracile*
- 5 *Festuca ovina* var. *diversifolia* -
- 6 *Festuca ovina* *repens*
- 7 *Festuca ovina* *repens* *repens* *repens*
- 8 *Helictotrichon* near *Helictotrichon*
- 9 *Helictotrichon* *repens* *repens* *repens*

665 *Helictotrichon* *repens* *repens* *repens*

- 1 *Agrostis* *repens* *repens* *repens*
- 2 *Agrostis* *repens*
- 3 *Agrostis* *repens* *repens* *repens*
- 4 *Agrostis* *repens* - 2 forms *repens* - the other may be a var. of *Agrostis*
- 5 *Agrostis* *repens* *repens* *repens*
- 6 *Agrostis* *repens*
- 7 *Agrostis* *repens* as 665.
- 8 *Agrostis* *repens* *repens* *repens*
- 9 *Agrostis* *repens* *repens* *repens*

680 *Helictotrichon* *repens* *repens* *repens*

- 1 *Helictotrichon* *repens* *repens* *repens*
- 2 *Helictotrichon* *repens* *repens* *repens*
- 3 *Helictotrichon* *repens* *repens* *repens*
- 4 *Helictotrichon* *repens* *repens* *repens*
- 5 *Helictotrichon* *repens* *repens* *repens*
- 6 *Helictotrichon* *repens* *repens* *repens*